

US EPA ARCHIVE DOCUMENT

Technical Support Document for 2008 Ozone NAAQS Designation for Puerto Rico

Puerto Rico Area Designations for the 2008 Ozone National Ambient Air Quality Standards

No areas of Puerto Rico violate the 2008 National Ambient Air Quality Standards for 2008 ozone NAAQS. Two monitors constitute the EPA-approved ozone network in Puerto Rico and both have design values well under the 0.075ppm NAAQS.

Technical Analysis for Puerto Rico

Since the air quality from the EPA-approved network is attainment at all the sites in Puerto Rico, the only factors to review are 1) the air quality data and 2) whether Puerto Rico impacts any nonattainment areas.

In a February 4, 2009 letter to the USEPA, Puerto Rico recommended that all of Puerto Rico be designated as attainment for the 2008 ozone NAAQS based on air quality data from 2006-2008. These data are from Federal Reference Method (FRM) monitors sited and operated in accordance with 40 CFR Part 58.

No comments or additional correspondence from Puerto Rico were received after EPA proposed these designations.

After considering Puerto Rico's recommendation and based on EPA's technical analysis described below, EPA will designate all of Puerto Rico as attainment/unclassified for the 2008 ozone NAAQS.

Factor Assessment

Factor A: Air Quality Data

For this factor, we considered 8-hour ozone design values (in ppm) for air quality monitors in Puerto Rico based on data for the 2008-2010 period (i.e., the 2010 design value, or DV), which are the most recent years with fully-certified air quality data. A monitor's DV is the metric or statistic that indicates whether that monitor attains a specified air quality standard. The 2008 ozone NAAQS are met when the annual fourth-highest daily maximum 8-hour average concentration, averaged over 3 years is 0.075 ppm or less. A DV is only valid if minimum data completeness criteria are met. See 40 CFR part 50 Appendix P. Where several monitors are located in a county (or a designated nonattainment area or maintenance area), the DV for the county or area is determined by the monitor with the highest level.

The 2010 DVs for the ozone NAAQS for counties in Puerto Rico are shown in Table 2.

Table 2. Air Quality Data.

Location	2008-2010 Design Value (ppb)
Catano	40
Juncos	40

Data for these two sites meet EPA's completeness requirements and are well under the 75ppb ozone NAAQS. See the attached report from EPA's Air Quality System for the data used for this table.



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Factor B: Impact on other areas

As part of EPA's evaluation of Section 110 ozone transport State Implementation Plans, EPA determined that Puerto Rico is too far from any other nonattainment areas to cause to contribute to violations of the ozone NAAQS in these areas. The nearest nonattainment areas are in the eastern portion of the continental United States, over a thousand miles from San Juan, Puerto Rico.



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Conclusion

Based on the assessment of factors described above EPA concludes that Puerto Rico has met the CAA criteria for attainment of the 2008 ozone NAAQS, as all monitors in its EPA-approved ozone network show attainment of the ozone standard. In addition, Puerto Rico is far enough from other ozone nonattainment areas that it does not cause or contribute to any nonattainment for the 2008 ozone NAAQS.